

**To:** LaPoma, Jennifer[LaPoma.Jennifer@epa.gov]  
**Cc:** Ben Hammond[hammondbh@cdmsmith.com]; Scott Kirchner[kirchnersf@cdmsmith.com]; TsangC@cdmsmith.com[TsangC@cdmsmith.com]; Gary.Foster@CH2M.com[Gary.Foster@CH2M.com]; George.Hicks@CH2M.com[George.Hicks@CH2M.com]; Jim Brinkman[james.brinkman@CH2M.com]; Willard Potter[otto@demaximis.com]; Robert Law[rlaw@demaximis.com]; Hoppe, Michael[Hoppe.Michael@epa.gov]; Elizabeth A NWK Franklin[Elizabeth.A.Franklin@usace.army.mil]  
**From:** John Rolfe  
**Sent:** Wed 5/7/2014 6:38:55 PM  
**Subject:** RE: FW: Survey Submittal Packages

Jennifer:

Thank you for the approval of the armor layer survey and permission to move ahead with deployment of the habitat layer. I have asked the engineer and contractor for a schedule to start deployment of the habitat layer. I anticipate that they will start on Thursday May 8th with a test small test area to evaluate the rate of application. I will send out an e-mail to EPA and CDM later today when I receive a schedule from the engineer/contractor.

Additionally, I have spoken to the engineer about the technical memo that you requested. I will forward the memo to you when it is complete.

Please feel free to contact me with any questions or concerns.

**John A. Rolfe**  
**de maximis, inc.**  
**186 Center Street, Suite 290**  
**Clinton, NJ 08809**  
**e-mail: jrolfe@demaximis.com**  
**Phone: (908) 735-9315**  
**Cell: (908) 347-0060**  
**Fax: (908) 735-2132**

>>> "LaPoma, Jennifer" <LaPoma.Jennifer@epa.gov> 5/7/2014 2:22 PM >>>

John,

EPA has reviewed the provided material. As set forth in Specification 02 32 00, Paragraph 3.05, the minimum thickness requirement has been met. Based on the provided material, EPA sees no reason to delay placement of the habitat layer.

As stated in Gary Foster's email, forwarded along with the surveys to EPA, the maximum average thickness is exceeded. For our records, can you please provide a technical memorandum which expands on the provided rationale (e.g., settling over time, dimensions of the armor stone)

as to why the exceedance over the maximum average thickness is not anticipated to be of concern.

Please feel free to contact me if you wish to discuss further.

Thanks,

Jennifer LaPoma

212-637-4328

**From:** John Rolfe [mailto:jrolfe@demaximis.com]

**Sent:** Monday, May 05, 2014 10:51 AM

**To:** TsangC@cdmsmith.com; Hoppe, Michael; LaPoma, Jennifer; Jason Magalen

**Cc:** Ben Hammond; Scott Kirchner; Gary.Foster@CH2M.com; George.Hicks@CH2M.com; Jim Brinkman; Willard Potter; Robert Law

**Subject:** Fwd: FW: Survey Submittal Packages

Jennifer, Mike, Frank, Jason:

Please find the attached e-mail and PDF surveys for the north and south areas.

Please feel free to contact me if you wish to discuss the surveys further.

John A. Rolfe

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>>> <[Gary.Foster@CH2M.com](mailto:Gary.Foster@CH2M.com)> 5/5/2014 10:34 AM >>>

John – Attached is the survey of the armor stone layer as prepared by GLDD. The following table verifies that the minimum thicknesses have been met – reference Specification 02 32 00, Paragraph 3.05 (Last table: Cap Layer Thickness Requirements). The one criteria that is slightly out of tolerance is the Maximum Average Thickness which is 25.68” compared to the specified 24”. However the overall elevation differential from the pre dredge is only 1.2”. With time we believe that settlement will occur lowering this slightly elevated surface and the overall impact to the river is considered minimal. Adjustments to the elevation are difficult considering the size of the armor stone (6” to 8” dimensions).

Should you or the EPA have any questions please contact me.

Sincerely, Gary

	North (ft)	South (ft)	Combined (ft)
Post Sand/AG to Post Rock	1.28	1.25	1.27
Pre Dredge to Post Rock	0.09	0.10	0.10
Post Dredge to Post Rock	2.15	2.13	2.14

**From:** [TDBriggs@gldd.com](mailto:TDBriggs@gldd.com) [<mailto:TDBriggs@gldd.com>]  
**Sent:** Sunday, May 04, 2014 8:44 PM  
**To:** Foster, Gary/ATL; Hicks, George/CHC; Brinkman, James/BOS  
**Cc:** [THCnudde@terra-sea.com](mailto:THCnudde@terra-sea.com); [JMiller@gldd.com](mailto:JMiller@gldd.com); [MPatria@gldd.com](mailto:MPatria@gldd.com); [LJShores@gldd.com](mailto:LJShores@gldd.com)  
**Subject:** Survey Submittal Packages  
**Importance:** High

Gary,

Attached are the final bathymetric surveys of the North and South Areas.

Tim Briggs